CATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 20 October 2000 (20.10.00)	in its capacity as elected Office
International application No. PCT/US00/08031	Applicant's or agent's file reference 7489/3M
International filing date (day/month/year) 24 March 2000 (24.03.00)	Priority date (day/month/year) 25 March 1999 (25.03.99)
*.pplicant	MR ()
PANANDIKER, Rajan, Keshav et al	
The designated Office is hereby notified of its election made X in the demand filed with the International Preliminary 07 September	Examining Authority on: 2000 (07.09.00) ational Bureau on:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Manu Berrod

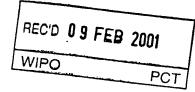
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's	or age	ent's file reference	FOR FURTHER AC	TION		ation of Transmittal of International	
7489/3M			FOR FUNITIES AC		Preliminary	/ Examination Report (Form PCT/IPEA/416)	
Internationa	l appli	cation No.	International filing date (day/month/	year)	Priority date (day/month/year)	
PCT/US0	0/08	031	24/03/2000			25/03/1999	_
Internationa C11D3/0		nt Classification (IPC) or na	ational classification and IPC	C			
Applicant							
THE PRO	CTE	R & GAMBLE COMP	PANY et al.				
1. This in and is	nterna trans	ational preliminary exam smitted to the applicant	nination report has been according to Article 36.	prepared	by this Inte	ernational Preliminary Examining Authority	y
2. This F	REPO	RT consists of a total o	f 8 sheets, including this	s cover sh	eet.		
b	en a	mended and are the ba	ed by ANNEXES, i.e. sho sis for this report and/or 107 of the Administrative	sheets co	ntaining re	n, claims and/or drawings which have ectifications made before this Authority ne PCT).	
These	anne	exes consist of a total o	f sheets.				
		···					
3. This r	eport	contains indications rel	ating to the following iter	ms:			
1	\boxtimes	Basis of the report					
11	\boxtimes	Priority					
III		Non-establishment of	opinion with regard to no	ovelty, inve	entive step	and industrial applicability	
IV	\boxtimes	Lack of unity of inventi	ion				
V	\boxtimes	Reasoned statement uncitations and explanations	under Article 35(2) with rions suporting such state	egard to n ement	ovelty, inv	entive step or industrial applicability;	
VI		Certain documents cit	ted				
VII	\boxtimes	Certain defects in the	international application				
VIII		Certain observations of	on the international appli	cation			
	_						_
Date of sub	missic	on of the demand		Date of c	ompletion of	this report	
07/09/20	00			07.02.20	01		
		g address of the internation ining authority:	al	Authorize	d officer	JEON GOVES MICH. CA.	١,
<u></u>	Euro D-80	pean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 52365	66 epmu d	Culmar	n, J-C	The state of the s	ELIMONE AND
		+49 89 2399 - 4465	•	Telephon	e No. +49 8	9 2399 8487	′

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/08031

I. Basis of the report

1.	res the	ponse to an invitatio	rawn on the basis of (substitute sheets which have been furnished to the receiving Office in on under Article 14 are referred to in this report as "originally filed" and are not annexed to not contain amendments (Rules 70.16 and 70.17).):
	1-2	5	as originally filed
	Cla	ims, No.:	
	1-1	1	as originally filed
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)). blication of the international application (under Rule 48.3(b)).
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule
3.			leotide and/or amino acid sequence disclosed in the international application, the vertical examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
			he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
		The statement that	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.			en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):



International application No. PCT/US00/08031

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Add	litional observations, if necessary:
II.	Pric	prity
1.		This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
		□ copy of the earlier application whose priority has been claimed.
		☐ translation of the earlier application whose priority has been claimed.
2.	×	This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.
	Thu date	s for the purposes of this report, the international filing date indicated above is considered to be the relevant e.
3.	Add	itional observations, if necessary:
IV.	Lac	k of unity of invention
1.	In re	esponse to the invitation to restrict or pay additional fees the applicant has:
		restricted the claims.
		paid additional fees.
		paid additional fees under protest.
		neither restricted nor paid additional fees.
2.	⊠	This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with.
	Ø	not complied with for the following reasons: see separate sheet
4.		sequently, the following parts of the international application were the subject of international preliminary nination in establishing this report:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/08031

×	all parts.
	the parts relating to claims Nos.

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 4,8-11

No:

Claims 1,2,3,5,6,7

Inventive step (IS)

Yes:

Claims

No:

Claims 4,8-11

Industrial applicability (IA)

Yes:

Claims 1-11

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

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Priority II.

The priority document 60/126,072 from which the application claims the priority date of 25.03.99 relates to compositions comprising:

- 1 to 70% of a surfactant;
- 0.01 to 10% of a dye maintenance polymer or oligomer deriving from specific monoethylenically unsaturated monomers.

The subject-matter of the present invention does not relate exclusively to compositions comprising said dye maintenance polymer or oligomer.

Thus, the priority date of 25.03.99 cannot be acknowledged, only the filing date of the present application will be considered, i.e. 24.03.00.

IV. Lack of unity of invention

The following documents, not cited in the search report, are referred to herein:

EP-A-0 798 414

FR-A-2 041 667

Document EP-A-0 798 414 relates to a composition which improves the resistance of fabrics upon wearing, as well as the resistance to colour fading (see more particularly at column 3, lines 23). Compositions comprising cationic resins are recited.

The present application encompasses (broadly) several types of polymers, i.e., those having the units (I), and those having the units (II).

Even if the Applicant had overcome the objections of novelty raised below, and

EXAMINATION REPORT - SEPARATE SHEET

succeeded in establishing the reality of the effect assigned to the polymers that he uses, said effect would have not formed the common inventive concept unifying the two types of compositions discussed above: this effect is known from this EP document.

Then, each type of composition is, on its own, an alternative over the compositions disclosed in the EP document. And, if their activity had been proven. each type of composition (depending on the polymer) would have been a nonobvious alternative over this EP document. Thus confirming the objection of lack of unity in the sense of Rule 13.1 PCT.

The French document provides more details about the cationic polymer used in the EP document.]

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability
- 1. Novelty.
- 1.1. Document US-A-4 418 011 (see Example 11 which comprises Merguat 550) anticipates the subject-matter of claims 1, 3, 5, 6, and 7. The polymers used therein are intended to reduce the occurrence of static charges.
- 1.2. Document DE-A-196 49 288 (see the formulations containing the polymers P1 to P3 in the table on page 9) anticipates the subject-matter of claims 1, 2, 3, and 5. The polymers used therein are intended to prevent dye transfer occurrence.
- 1.3. Document US-A-5 783 533 relates to rheology modifying agents. Formulation 17 (see Table 2; it comprises about 37% by weight of surfactant and 0.56% of agent) anticipates the subject-matter of claims 1, 3 and 5.
- 2. Inventive step.

2.1. The Applicant has stated a problem (deterioration of fabric integrity).

But has not established that a composition, comprising the polymer defined in claim 1 item A), does solve it. The Applicant assigns a "dye protection" capacity to said polymer, but that is a mere allegation.

The Applicant was respectfully requested to submit convincing evidence in order to substantiate his allegation, by means of comparative tests, wherein a composition comprising one of said polymer is compared to a similar composition, but devoid of polymer.

- 2.2. The Applicant refrained to submit this evidence, the Examining Authority thus concludes that the problem actually faced by the Applicant is any one solved previously in the art (i.e. the problems faced in any of the documents cited below), and that the Applicant has merely used or slightly altered or better defined the polymers known in said prior art.
- 2.2.1. Document GB-A-2 104 091 relates to amphoteric polymers which enhance the cleaning action of the detergents which are present. Since it may not be determined whether polymers having a global positive charge are definitely synthesized (and have been used in the exemplifying compositions), no objection of lack of novelty is based on this citation.
- 2.2.2. The abstract from the data base WPI (abstract of JP 61 031499) does not anticipates the subject-matter of the present claims, for there is no specific, unambiguous disclosure of a composition falling within the ranges defined by the present claims. However, it relates to polymers, possibly encompassed by said claims, and which are intended to retard the detergent activity of a composition till the rinsing step.
- 2.2.3. No objection against the novelty of the subject-matter of the claims is raised on the basis of WO 98/16538, which relates to fabric softening compositions which comprise deposition aids, some of them falling within the various definitions of the "dye maintenance" material used in the present invention (see on page 36,

EXAMINATION REPORT - SEPARATE SHEET

FlocAid 34, Merguat 100; poly DMDAAC:EHA ex National Starch; Example 53). These compositions may also comprise cationic surfactants (see Example 53).

- 2.2.4. WO 98/12292 relates to fabric softening compositions comprising a softening booster which may be polyvinylamine; some surfactant may also be present (up to 15%, see on page 19).
- 2.3. In the state of the file, it seems that the features encompassed by the claims which are novel are present for their known properties, and that there is no unexpected inter-relationship between them. Said claims are novel, but lack an inventive step.
- 2.4. See also above, the item IV. of this report.
- VII. Certain defects in the international application.

Depending on the argumentation that the Applicant will submit upon entering the Regional Phase, US-A-4 418 011, DE-A-196 49 288, US-A-5 783 533, GB-A-2 104 091, JP 61 031499, WO 98/16538, WO 98/12292 and EP-A-0 798 414 might have to be cited and commented.

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DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT



tional Application No. PCT/US 00/08031

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D3/00 C11D3/37

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO OO 22077 A (GOSSELINK EUGENE PAUL; PANANDIKER RAJAN KESHAV (US); RANDALL SHERR) 20 April 2000 (2000-04-20) examples #19-31,34-39 of table III examples III-VI; tables III-VI claims 1-8	1-11
X	US 4 418 011 A (BAUMAN ROBERT A ET AL) 29 November 1983 (1983-11-29) claims 1,5,6,9,10; examples 1-4,7,8,11,12	1-3,5-7, 9
X	EP 0 754 748 A (PROCTER & GAMBLE) 22 January 1997 (1997-01-22) claims 1-6 -/	1,5,8

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family	
Date of the actual completion of the International search 7 July 2000	Date of mailing of the international search report 19/07/2000	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016	Authorized officer Loiselet-Taisne, S	

INTERNATIONAL SEARCH REPORT

trate stonal Application No PCT/US 00/08031

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 49 288 A (HENKEL KGAA) 4 June 1998 (1998-06-04) page 4, line 33 - line 36; claims 1-7,13,14; examples; table 1	1-3,5
X	WO 98 12292 A (BAKER ELLEN SCHMIDT; HARTMAN FREDERICK ANTHONY (US); PROCTER & GAM) 26 March 1998 (1998-03-26) claims 1,5; examples 1,2	1,3-5
X	GB 2 104 091 A (KAO CORP)	1-3,5,9
A	2 March 1983 (1983-03-02) synthesis ex. 1, 2 page 3, line 42 - line 48; table 1	8
X	WO 98 16538 A (UNILEVER PLC ; GRAINGER DAVID STEPHEN (GB); UNILEVER NV (NL); KHAN) 23 April 1998 (1998-04-23) claim 1; examples 50F,51D	1-3,6,7
X	US 5 783 533 A (KENSICHER YVES ET AL) 21 July 1998 (1998-07-21) trial 9, 16, 17, 19 column 21, line 41 - line 44; claims 1,4,8,12,16,17; example 7; table 5	1-3,5
A	WO 99 05248 A (UNILEVER PLC; UNILEVER NV (NL)) 4 February 1999 (1999-02-04) see Merquat 100, 280, 295, 550, 2200, plus 3330, plus 3331, S; FlocAid 19; Salcare SC 10 of pages 40-41 page 46, line 10 - line 17; claims 1-5; examples 1-3	1,3,5-7
X	DATABASE WPI Section Ch, Week 198613 Derwent Publications Ltd., London, GB; Class A97, AN 1986-085029 XP002140983 & JP 61 031499 A (LION CORP), 13 February 1986 (1986-02-13) abstract	1-3

INTERNATIONAL SEARCH REPORT

information on patent family members

Int. donal Application No PCT/US 00/08031

Patent document cited in search repo	rt	Publication date		Patent family member(s)	Publication date
WO 0022077	A	20-04-2000	WO	0022078 A	20-04-2000
			WO WO	0022075 A	20-04-2000
			WO	0022079 A	20-04-2000
US 4418011	Α	29-11-1983	AU	554970 B	11-09-1986
	• • •		AU	1715183 A	09-02-1984
			CA	1197355 A	03-12-1985
			CH	670543 A	30-06-1989
			DK	345383 A	04-02-1984
			FR	2531450 A	10-02-1984
			ΪŤ	1169070 B	27-05-1987
			ΜX	158947 A	03-03-1989
			ZA	8305225 A	27-03-1985
EP 0754748	A	22-01-1997	BR	9609751 A	06-07-1999
	••		CA	2227412 A	06-02-1997
			WO	9704062 A	06-02-1997
DE 10040000					
DE 19649288	Α	04-06-1998	MO	9823714 A	04-06-1998
		·	EP	0944701 A	29-09-1999
WO 9812292	Α	26-03-1998	AU	4356297 A	14-04-1998
			AU	4356397 A	14-04-1998
			CN	1237199 A	01-12-1999
			CN	1238000 A	08-12-1999
			CZ	9900945 A	11-08-1999
			EP	0931131 A	28-07-1999
			EP	0931132 A	28-07-1999
				000503080 T	14-03-2000
				000503735 T	28-03-2000
			NO	991201 A	19-05-1999
			NO Wo	991203 A 9812293 A	19-05-1999 26-03-1998
CD 2104001		00 00 1000			
GB 2104091	Α	02-03-1983	JP JP	1055320 B 1569529 C	24-11-1989 10-07-1990
			JP JP	58013700 A	26-01-1983
			HK	46788 A	01-07-1988
			MY	54987 A	31-12-1987
			SG	63187 G	19-02-1988
WO 9816538	Α	23-04-1998	AU	5051098 A	11-05-1998
MO 3010330	^	43-04-1330	EP	0934328 A	11-05-1996
			ZA	9709231 A	15-04-1999
US 5783533	Α	21_07_1000	CD.	2722021 A	27_00_1006
us 3/03333	A	21-07-1998	FR CA	2732031 A 2169894 A	27-09-1996 24-09-1996
			EP	0733700 A	25-09-1996 25-09-1996
			LI	0/33/00 A	
WO 9905248	A	04-02-1999	US	5981456 A	09-11-1999
			AU	8864298 A	16-02-1999
			EP	0893491 A	27-01-1999
			EP Au	0998548 A 9258498 A	10-05-2000 29-11-1999
			WO	9258498 A 9958633 A	18-11-1999
 JP 61031499	Α	13-02-1986	NONE		